#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

# UNITED STATES DEPARTMENT OF THE INTERIOR

**GEOLOGICAL SURVEY** 

30-095-3565

5. LEASE DESIGNATION AND SERIAL NO.
SF 078197

							PF 0/819/	
APPLICATIO	N FOR PERMI	TO DRILL,	DEEPE	N, OR PL	UG E	BACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
R. TYPE OF WORK	RILL 🖾	DEFORM				C	7 UNIT LODGE	<u> </u>
Dr. TYPE OF WELL	LL 🖺 DEEPEN 🗌 PLUG BACK 🗌			CK 📙	7. UNIT AGREEMENT NAME			
	GAS WELL OTHER			NGLE X	MULTIE	LE [	S. FARM OR LEASE N.	
NAME OF OPERATOR	WELL A OTHER		ZO	NE X	ZONE		-	AME
El Paso Na	tural Gas Co	ompany		•			Feuille A	· · · · · · · · · · · · · · · · · · ·
ADDRESS OF OPERATOR		<u></u>					1R	
PO Box 289	, Farmington	n. NM 8740	1.0	~		<b>x</b>	10. FIELD AND POOL,	-
LOCATION OF WELL (	Report location clearly a	and in accordance wit	th any S	tate requirement	ts.*)		Aztec Pic.	
At surface	920's, 1		•		,			
At proposed prod. zone						11. SEC., T., R., M., OR AND SURVEY OR A	REA	
me proposed prou. 20	same					in the	Sec.4,T-29	-N,R-10-W
DISTANCE IN MILES	AND DIRECTION FROM N	EAREST TOWN OR POS	T OFFICE	•	·		NMPM 12. COUNTY OR PARIS	g   12 cm.m.
4 miles Fa	st of Aztec	NIM						
DISTANCE FROM PROP	OSED*	INPI	16. NO.	OF ACRES IN L	RASE	17 NO 0	San Juan  OF ACRES ASSIGNED	<u>  NM</u>
PROPERTY OR LEASE	LINE, FT.	920 <b>'</b>				TO TE	THIS WELL	
DISTANCE FROM PRO	g. unit line, if any)	920	10 70	1504	. 9			146.46
TO NEAREST WELL, I OR APPLIED FOR, ON TH	DRILLING, COMPLETED.	4001	15. PRO			1	RY OR CABLE TOOLS	• .
	nether DF, RT, GR, etc.)	400'	<u> </u>	2440'		Rotary		-
5843 GL	21, 101, GIL, EKC.)						22. APPROX. DATE W	ORK WILL START*
						,		
		PROPOSED CASIN	IG AND	CEMENTING :	PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	тос	SETTING DE	РТН		QUANTITY OF CEME	NT
12 1/4"	8 5/8"	_ 24.0#	<u> </u>	120' 106 C		u.ft.circ. to surface		
6 3/4"	2 7/8"	6.4#		2440		427 C	u.ft.to cov	co Surrac
	y perforate						•	
A 3000 psi blind and p	WP and 6000 pipe rams wi	) psi test .ll be used	doub for	le gate blow ou	prev it pr	enter event	equipped w	ith well
This das is	s dedicated.					and the second second second	7	Mary Control
					ا وسود	Jan Jan Harris		A STORE NOTICE
					1.7	E mark		00/
				•		av 9	4 1979	"M' " O
The SE/4 of	f Section 4	is dedicat	ed t	o this w	zell.	MHIN		WHY COL
BOVE SPACE DESCRIBE	PROPOSED PROGRAM: I	proposal is to deep	en or nli	g hack, give de	te on nr	egent needs	SURVEY	" "O"
Tr proposar is to	arm or neeben direction	nally, give pertinent	data on	subsurface loca	tions an	denessing	and true vertical depti	productive
enter program, if an	y.				<u> </u>	LYD WHEN.	<u> </u>	
11. 3	y. R	i			` - '		2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	And the Control of the State of
SIGNED	Husco	/	.1c	- Drill	ina	Clerk	DATE5-2	4-79
(This space for Fede	ral or State office use)			~ + ± ± ±		JACER		
	J. Jane Onice use)							,
PERMIT NO.			^	PPROVAL DATE				
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APPROVED BY		TITL	.e				DATE	
CONDITIONS OF APPROV	AL, IF ANY:	1				•		•
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11WW 3 77	34	7	1-17)					. •

\*See Instructions On Reverse Side

## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

### P. O. BOX 2088

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 87501

All distances must be from the outer houndaries of the Section. Well Ho. gretator 1R FEUILLE "A" (SF-078197) EL PASO NATURAL GAS COMPANY Township itange. County mit Letter Section 29N 10% San Juan ctual Footage Location of Well: 1580 East South feet from the feet from the line and Dedicated Acreage; Producing Formation cound Level Clev. Aztec Pictured Cliffs -146.46. Pictured Cliffs 5843 Actes 1. Outline the acrenge dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation. If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information cortained herein is true and complete to the best of my knowledge and belief. Drilling Clerk. Position El Paso Natural Gas Co. <sup>C</sup>May 24, 1979 Date Sec. I hereby certify that the well location shown on this plat was platted from field notes of octual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. <u> 15</u>80' 1320 1680 1984 2640 1500



6.

P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

Multi-Point Surface Use Plan

#### Feuille A #1R

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2.
- 4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines Please refer to Maps No. 1 and No. 2.

  Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from Bloomfield Ditch.
  - Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1,

7. cont'd.

will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.

- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plan's for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.
- 11. Other Information The terrain is sagebrush slopes with sagebrush growing. Cattle, deer and rabbit are occasionally seen on the proposed project site.
- 12. Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM
- 13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

L. A. Aimes

Project Drilling Engineer

#### Operations Plan - Feuille A #1R

I. Location: 920'S, 1580'E, Section 4, T-29-N, R-10-W, San Juan County, NM

Field: So.Blanco Pictured Cliffs Elevation: 5843'GL

#### II. Geology:

A. Surface Formation: Nacimiento

Sub-surface Formation Tops:

Ojo Alamo	1040'	Pictured Cliffs	2275 <b>'</b>
Kirtland	1155'	Lewis	2400'
Fruitland	1850'	Total Depth	2440'

- B. Logging Program: Induction Electric and Gamma Ray Density at TD.
- C. Coring: none
- D. Testing: none

#### III. Drilling:

A. Anticipated Starting Date and Duration of the Project:

1979 Drilling Program - approximately 4 days to complete.

B. Circulating Medium: Treated water and a low solids gel base mud will be used from surface to TD.

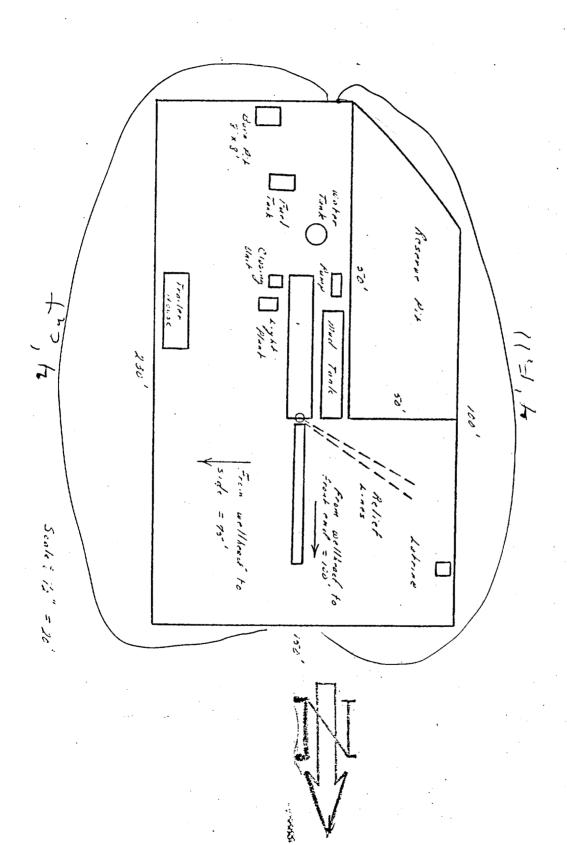
#### IV. Materials:

A. Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
	12 1/4"	120'	8 5/8"	24.0# J-55
	6 3/4"	2440'	2 7/8"	6.4# J-55

- B. Float Equipment: 8 5/8" surface casing cement guide shoe.
  - 2 7/8" production casing 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.
- C. Tubing: none
- D. Wellhead Equipment: Larkin wellhead (fig. 75)

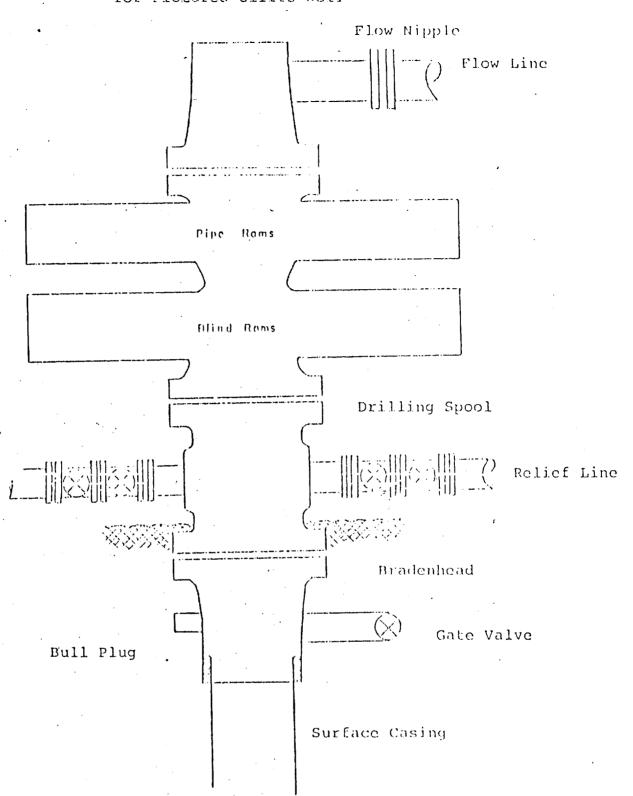
#### V. Cementing:

- 8 5/8" surface casing 90 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing wellhead and BOP to 600#/30 minutes.
- 2 7/8" production 213 sks. 65/35 Class "B" Poz with 6% gel, 2% CaCl2, and 8.3 gallons water per sack followed by 70 sks.Class "B" neat cement (427 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.



Typical Location Plat for Pictured Clifts Well

#### Typical Mud Drilled N.O.P. Installation for Pictured Cliffs Well



8" Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

#### EL PASO NATURAL GAS COMPANY Feuille A #1R SE 4-29-10

